

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION  
(PCT Rule 61.2)

Date of mailing:  
15 July 1999 (15.07.99)

International application No.:  
PCT/CH99/00006

International filing date:  
06 January 1999 (06.01.99)

Applicant:  
RITTER, Rudolf

To:

United States Patent and Trademark  
Office  
(Box PCT)  
Crystal Plaza 2  
Washington, DC 20231  
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Applicant's or agent's file reference:  
114410.2/DV/mb

Priority date:  
09 January 1998 (09.01.98)

1. The designated Office is hereby notified of its election made:

in the demand filed with the International preliminary Examining Authority on:  
15 June 1999 (15.06.99)

in a notice effecting later election filed with the International Bureau on:  
\_\_\_\_\_

2. The election  was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland  
Facsimile No.: (41-22) 740.14.35

Authorized officer:

J. Zahra  
Telephone No.: (41-22) 338.83.38

Form PCT/IB/331 (July 1992)

2718509

VERIFICATION OF TRANSLATION

I, the undersigned, hereby declare:

That my name and address are as stated below under my signature;  
That I am conversant with the English and German languages;  
and

That the attached translation is a true translation prepared by me of the accompanying International Application No. PCT/CH 99/00006 filed on January 6, 1999, and of the accompanying amended pages filed on December 2, 1999.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any U.S. patent issued thereon.

June 13, 2000



(signature)  
Ann Kistler  
Friedlistrasse 4  
CH-3006 Berne  
Switzerland

09/582945

TRANSLATION

534 Rec'd PCT/PTC 07 JUL 2000

Patent Cooperation Treaty (PCT)

Appointment of an agent or common representative

-----

The undersigned applicant(s) hereby appoint(s)

BOVARD LTD.  
Patent Attorneys  
Optingenstrasse 16  
CH-3000 Berne 25

to act before the competent international authorities concerning the international application filed with the Federal Office of Intellectual Property, 3003 Berne, entitled:

**"Telecommunication Method"**

Agent's file reference: 114410.2/DV/mb

Number of the international application: PCT/CH 99/00006

Berne

14 January 1999

(Place)

(Date)

(signature) Walter Heutschi

(Signature(s) of the Applicant(s)) Rudolf Ritter (inventor)

Swisscom AG

Walter Heutschi  
Director Mobile

Please typewrite the name under each signature

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum) 114410.2/DV/mb

Box No. I TITLE OF INVENTION

Telecommunication Method

Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

SWISSCOM AG  
Viktoriastrasse 21  
3050 Berne (Switzerland)

This person is also inventor.

Telephone No.

Facsimile No.

Teleprinter No.

State (that is, country) of nationality:

Switzerland

State (that is, country) of residence:

Switzerland

This person is applicant for the purposes of:

all designated States

all designated States except the United States of America

the United States of America only

the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

RITTER, Rudolf  
Rossweidweg 8  
3052 Zollikofen (Switzerland)

This person is:

applicant only

applicant and inventor

inventor only (If this check-box is marked, do not fill in below)

State (that is, country) of nationality:

Switzerland

State (that is, country) of residence:

Switzerland

This person is applicant for the purposes of:

all designated States

all designated States except the United States of America

the United States of America only

the States indicated in the Supplemental Box

Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

agent

common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

BOVARD LTD  
Patent Attorneys  
Optingenstr. 16  
3000 Berne 25 (Switzerland)

Telephone No.

031/335 20 00

Facsimile No.

031/332.81.59

Teleprinter No.

911 907 bova ch

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

## Box No. V DESIGNATION OF STATES

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

## Regional Patent

AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT

EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT

EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT

OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line) GW Guinea Bissau

National Patent (if other kind of protection or treatment desired, specify on dotted line):

AL Albania

AM Armenia

AT Austria and utility model

AU Australia

AZ Azerbaijan

BA Bosnia and Herzegovina

BB Barbados

BG Bulgaria

BR Brazil

BY Belarus

CA Canada

CH and LI Switzerland and Liechtenstein

CN China

CU Cuba

CZ Czech Republic and utility model

DE Germany and utility model

DK Denmark and utility model

EE Estonia and utility model

ES Spain and utility model

FI Finland and utility model

GB United Kingdom

GD Grenada

GE Georgia

GH Ghana

GM Gambia

HR Croatia

HU Hungary

ID Indonesia

IL Israel

IN India

IS Iceland

JP Japan

KE Kenya

KG Kyrgyzstan

KP Democratic People's Republic of Korea

KR Republic of Korea

KZ Kazakhstan

LC Saint Lucia

LK Sri Lanka

LR Liberia

LS Lesotho

LT Lithuania

LU Luxembourg

LV Latvia

MD Republic of Moldova

MG Madagascar

MK The former Yugoslav Republic of Macedonia

MN Mongolia

MW Malawi

MX Mexico

NO Norway

NZ New Zealand

PL Poland

PT Portugal

RO Romania

RU Russian Federation

SD Sudan

SE Sweden

SG Singapore

SI Slovenia

SK Slovakia and utility model

SL Sierra Leone

TJ Tajikistan

TM Turkmenistan

TR Turkey

TT Trinidad and Tobago

UA Ukraine

UG Uganda

US United States of America

UZ Uzbekistan

VN Viet Nam

YU Yugoslavia

ZW Zimbabwe

Check-boxes reserved for designating States which have become party to the PCT after issuance of this sheet:

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

## Box No. VI PRIORITY CLAIM

 Further priority claims are indicated in the Supplemental Box.

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country	regional application: regional Office	international application: receiving Office
item (1) 09/01/1998 9 January 1998	0024/98	Switzerland		
item (2)				
item (3)				

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s):

\* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.

## Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA)  
(if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year) Number Country (or regional Office)

ISA /

8 May 1998 SN 30907 CH Europ. Patent Office

## Box No. VIII CHECK LIST; LANGUAGE OF FILING

This international application contains the following number of sheets:

request : 3  
description (excluding sequence listing part) : 12  
claims : 4  
abstract : 1  
drawings : 4  
sequence listing part of description : \_\_\_\_\_

Total number of sheets : 24

This international application is accompanied by the item(s) marked below:

1.  fee calculation sheet
2.  separate signed power of attorney follows
3.  copy of general power of attorney; reference number, if any:
4.  statement explaining lack of signature
5.  priority document(s) identified in Box No. VI as item(s):
6.  translation of international application into (language):
7.  separate indications concerning deposited microorganism or other biological material
8.  nucleotide and/or amino acid sequence listing in computer readable form
9.  other (specify): Copy Search Report

Figure of the drawings which should accompany the abstract: 1

Language of filing of the international application: German

## Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

BOVARD LTD

J. Aebischer

## For receiving Office use only

1. Date of actual receipt of the purported international application:

3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:

4. Date of timely receipt of the required corrections under PCT Article 11(2):

5. International Searching Authority (if two or more are competent): ISA /

2. Drawings:

received:

not received:

6.  Transmittal of search copy delayed until search fee is paid.

## For International Bureau use only

Date of receipt of the record copy by the International Bureau:

**VERTR. ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT  
AUF DEM GEBIET DES PATENTWESENS**

**PCT**

**INTERNATIONALER RECHERCHENBERICHT**

(Artikel 18 sowie Regeln 43 und 44 PCT)

Aktenzeichen des Annehmers oder Anwalts <b>114410.2/DV/mb</b>	<b>WEITERES VORGEHEN</b>	siehe Mitteilung über die Übermittlung des internationalen Recherchenberichts (Formblatt PCT/ISA/220) sowie, soweit zutreffend, nachstehender Punkt 5
Internationales Aktenzeichen <b>PCT/CH 99/ 00006</b>	Internationales Anmeldedatum (Tag/Monat/Jahr) <b>06/01/1999</b>	(Frühestes) Prioritätsdatum (Tag/Monat/Jahr) <b>09/01/1998</b>
Annehmer <b>SWISSCOM AG et al.</b>		

Dieser internationale Recherchenbericht wurde von der Internationalen Recherchenbehörde erstellt und wird dem Annehmer gemäß Artikel 18 übermittelt. Eine Kopie wird dem Internationalen Büro übermittelt.

Dieser internationale Recherchenbericht umfaßt insgesamt 3 Blätter.

Darüber hinaus liegt ihm jeweils eine Kopie der in diesem Bericht genannten Unterlagen zum Stand der Technik bei.

**1. Grundlage des Berichts**

a. Hinsichtlich der **Sprache** ist die internationale Recherche auf der Grundlage der internationalen Anmeldung in der Sprache durchgeführt worden, in der sie eingereicht wurde, sofern unter diesem Punkt nichts anderes angegeben ist.

Die internationale Recherche ist auf der Grundlage einer bei der Behörde eingereichten Übersetzung der internationalen Anmeldung (Regel 23.1 b)) durchgeführt worden.

b. Hinsichtlich der in der internationalen Anmeldung offenbarten **Nucleotid- und/oder Aminosäuresequenz** ist die internationale Recherche auf der Grundlage des Sequenzprotokolls durchgeführt worden, das

in der internationalen Anmeldung in schriftlicher Form enthalten ist.

zusammen mit der internationalen Anmeldung in computerlesbarer Form eingereicht worden ist.

bei der Behörde nachträglich in schriftlicher Form eingereicht worden ist.

bei der Behörde nachträglich in computerlesbarer Form eingereicht worden ist.

Die Erklärung, daß das nachträglich eingereichte schriftliche Sequenzprotokoll nicht über den Offenbarungsgehalt der internationalen Anmeldung im Anmeldezeitpunkt hinausgeht, wurde vorgelegt.

Die Erklärung, daß die in computerlesbarer Form erfaßten Informationen dem schriftlichen Sequenzprotokoll entsprechen, wurde vorgelegt.

2.  **Bestimmte Ansprüche haben sich als nicht recherchierbar erwiesen** (siehe Feld I).

3.  **Mangelnde Einheitlichkeit der Erfindung** (siehe Feld II).

**4. Hinsichtlich der Bezeichnung der Erfindung**

wird der vom Annehmer eingereichte Wortlaut genehmigt.

wurde der Wortlaut von der Behörde wie folgt festgesetzt:

**VERFAHREN ZUR INTERAKTIVEN TELEKOMMUNIKATION**

**5. Hinsichtlich der Zusammenfassung**

wird der vom Annehmer eingereichte Wortlaut genehmigt.

wurde der Wortlaut nach Regel 38.2b) in der in Feld III angegebenen Fassung von der Behörde festgesetzt. Der Annehmer kann der Behörde innerhalb eines Monats nach dem Datum der Absendung dieses internationalen Recherchenberichts eine Stellungnahme vorlegen.

**6. Folgende Abbildung der Zeichnungen ist mit der Zusammenfassung zu veröffentlichen: Abb. Nr. 1**

wie vom Annehmer vorgeschlagen

weil der Annehmer selbst keine Abbildung vorgeschlagen hat.

weil diese Abbildung die Erfindung besser kennzeichnet.

keine der Abb.

# INTERNATIONALER RECHERCHENBERICHT

Internationales Aktenzeichen

PCT/CH 99/00006

## A. KLASIFIZIERUNG DES ANMELDUNGSGEGENSTANDES

IPK 6 H04H9/00

Nach der Internationalen Patentklassifikation (IPK) oder nach der nationalen Klassifikation und der IPK

## B. RECHERCHIERTE GEBIETE

Recherchierte Mindestprüfstoff (Klassifikationssystem und Klassifikationssymbole )  
IPK 6 H04H

Recherchierte aber nicht zum Mindestprüfstoff gehörende Veröffentlichungen, soweit diese unter die recherchierten Gebiete fallen

Während der internationalen Recherche konsultierte elektronische Datenbank (Name der Datenbank und evtl. verwendete Suchbegriffe)

## C. ALS WESENTLICH ANGESEHENE UNTERLAGEN

Kategorie*	Bezeichnung der Veröffentlichung, soweit erforderlich unter Angabe der in Betracht kommenden Teile	Betr. Anspruch Nr.
A	EP 0 426 542 A (EUROP RECH ELECTR LAB) 8. Mai 1991 siehe Spalte 1, Zeile 1 – Spalte 4, Zeile 19; Ansprüche 1,13; Abbildung 1 ---	1,15
A	WO 97 40616 A (GEMPLUS CARD INT) 30. Oktober 1997 siehe Seite 1, Zeile 1 – Seite 15, Zeile 12; Anspruch 1; Abbildung 1 ---	1,15
A	WO 95 15654 A (ZING SYSTEMS L P) 8. Juni 1995 siehe Seite 1, Zeile 1 – Seite 10, Zeile 26; Ansprüche 1,17,21,25,28,33,37,39; Abbildung 1 ---	1,15

Weitere Veröffentlichungen sind der Fortsetzung von Feld C zu entnehmen

Siehe Anhang Patentfamilie

- \* Besondere Kategorien von angegebenen Veröffentlichungen :
- "A" Veröffentlichung, die den allgemeinen Stand der Technik definiert, aber nicht als besonders bedeutsam anzusehen ist
- "E" älteres Dokument, das jedoch erst am oder nach dem internationalen Anmeldedatum veröffentlicht worden ist
- "L" Veröffentlichung, die geeignet ist, einen Prioritätsanspruch zweifelhaft erscheinen zu lassen, oder durch die das Veröffentlichungsdatum einer anderen im Recherchenbericht genannten Veröffentlichung belegt werden soll oder die aus einem anderen besonderen Grund angegeben ist (wie ausgeführt)
- "O" Veröffentlichung, die sich auf eine mündliche Offenbarung, eine Benutzung, eine Ausstellung oder andere Maßnahmen bezieht
- "P" Veröffentlichung, die vor dem internationalen Anmeldedatum, aber nach dem beanspruchten Prioritätsdatum veröffentlicht worden ist
- "T" Spätere Veröffentlichung, die nach dem internationalen Anmeldedatum oder dem Prioritätsdatum veröffentlicht worden ist und mit der Anmeldung nicht kollidiert, sondern nur zum Verständnis des der Erfindung zugrundeliegenden Prinzips oder der ihr zugrundeliegenden Theorie angegeben ist
- "X" Veröffentlichung von besonderer Bedeutung; die beanspruchte Erfindung kann allein aufgrund dieser Veröffentlichung nicht als neu oder auf erforderlicher Tätigkeit beruhend betrachtet werden
- "Y" Veröffentlichung von besonderer Bedeutung; die beanspruchte Erfindung kann nicht als auf erforderlicher Tätigkeit beruhend betrachtet werden, wenn die Veröffentlichung mit einer oder mehreren anderen Veröffentlichungen dieser Kategorie in Verbindung gebracht wird und diese Verbindung für einen Fachmann naheliegend ist
- "&" Veröffentlichung, die Mitglied derselben Patentfamilie ist

Datum des Abschlusses der internationalen Recherche	Absendedatum des internationalen Recherchenberichts
9. April 1999	28/04/1999
Name und Postanschrift der Internationalen Recherchenbehörde Europäisches Patentamt, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Bevollmächtigter Bediensteter De Haan, A.J.

## INTERNATIONALER RECHERCHENBERICHT

Internationales Aktenzeichen

PCT/CH 99/00006

## C.(Fortsetzung) ALS WESENTLICH ANGESEHENE UNTERLAGEN

Kategorie*	Bezeichnung der Veröffentlichung, soweit erforderlich unter Angabe der in Betracht kommenden Teile	Betr. Anspruch Nr.
A	US 5 444 769 A (KOEN JACOBUS P L ET AL) 22. August 1995 siehe Spalte 1, Zeile 1 - Spalte 2, Zeile 10; Ansprüche 1,4; Abbildung 1 -----	1,15

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH 99/00006

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04H9/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 H04H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 426 542 A (EUROP RECH ELECTR LAB) 8 May 1991 see column 1, line 1 - column 4, line 19; claims 1,13; figure 1 ---	1,15
A	WO 97 40616 A (GEMPLUS CARD INT) 30 October 1997 see page 1, line 1 - page 15, line 12; claim 1; figure 1 ---	1,15
A	WO 95 15654 A (ZING SYSTEMS L P) 8 June 1995 see page 1, line 1 - page 10, line 26; claims 1,17,21,25,28,33,37,39; figure 1 ---	1,15 -/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

9 April 1999

Date of mailing of the international search report

28/04/1999

## Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

## Authorized officer

De Haan, A.J.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH 99/00006

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 444 769 A (KOEN JACOBUS P L ET AL) 22 August 1995 see column 1, line 1 - column 2, line 10; claims 1,4; figure 1 -----	1,15

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CH 99/00006

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 0426542	A 08-05-1991	FR	2654286 A	10-05-1991
		DE	69029835 D	13-03-1997
		DE	69029835 T	28-05-1997
		MX	171750 B	11-11-1993
		NZ	235927 A	25-03-1994
		US	5173589 A	22-12-1992
WO 9740616	A 30-10-1997	AU	2401397 A	12-11-1997
		CA	2252526 A	30-10-1997
		EP	0894397 A	03-02-1999
WO 9515654	A 08-06-1995	US	5734413 A	31-03-1998
		AU	1292895 A	19-06-1995
		EP	0740884 A	06-11-1996
		US	5638113 A	10-06-1997
US 5444769	A 22-08-1995	GB	2295746 A	05-06-1996
		ZA	9209925 A	21-09-1996

Translation

PATENT COOPERATION TREATY

RECEIVED

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

TECH CENTER 2700 (PCT Article 36 and Rule 70)

09/582945

5630

2745

116

2710

Applicant's or agent's file reference 114410.2/DV/mb	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/CH99/00006	International filing date (day/month/year) 06 January 1999 (06.01.99)	Priority date (day/month/year) 09 January 1998 (09.01.98)
International Patent Classification (IPC) or national classification and IPC H04H 9/00		
Applicant SWISSCOM AG		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 6 sheets.

3. This report contains indications relating to the following items:

- I  Basis of the report
- II  Priority
- III  Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV  Lack of unity of invention
- V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI  Certain documents cited
- VII  Certain defects in the international application
- VIII  Certain observations on the international application

Date of submission of the demand 15 June 1999 (15.06.99)	Date of completion of this report 23 February 2000 (23.02.2000)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CH99/00006

## I. Basis of the report

1. This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

 the international application as originally filed. the description, pages 1, 3-12, as originally filed,  
pages \_\_\_\_\_, filed with the demand,  
pages 2, 2a, filed with the letter of 02 December 1999 (02.12.1999),  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_ the claims, Nos. \_\_\_\_\_, as originally filed,  
Nos. \_\_\_\_\_, as amended under Article 19,  
Nos. \_\_\_\_\_, filed with the demand,  
Nos. 1-19, filed with the letter of 02 December 2000 (02.12.2000),  
Nos. \_\_\_\_\_, filed with the letter of \_\_\_\_\_ the drawings, sheets/fig 1/4-4/4, as originally filed,  
sheets/fig \_\_\_\_\_, filed with the demand,  
sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_  
sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_

2. The amendments have resulted in the cancellation of:

 the description, pages \_\_\_\_\_ the claims, Nos. \_\_\_\_\_ the drawings, sheets/fig \_\_\_\_\_

3.  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CH 99/00006

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	1-19	YES
	Claims		NO
Inventive step (IS)	Claims	1-19	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-19	YES
	Claims		NO

## 2. Citations and explanations

1. The subject of Claim 1 is novel and inventive (PCT Article 33(2) and (3)).

1.1 Claim 1 relates to a telecommunications method. In it digital data are received by way of a broadcast channel. The data are programme-accompanying data in a media programme. Reception is by way of a mobile telecommunications device comprising a radio receiver or a television receiver. The mobile device also has an identification card by means of which its user is identified. Information corresponding to the data received is displayed on a display in the mobile device. On receipt of an order from the user a message based on the data received and an identification of the user, obtained from the identification card, is prepared. The prepared message is then transmitted by a mobile radio network.

1.2 The use of a mobile radio device to receive data accompanying a radio or television programme, and the preparation and transmission by the mobile radio device of a message based on this data, are not

rendered obvious by the relevant prior art.

**EP-A-0 426 542** relates to a stationary system. The receiver device is a traditional television receiver which has in addition a card reader to identify the user. A message is produced by combining the data received and the user identification and is displayed to the user on the television screen. This message is then read by the user and forwarded off-line. This document does not contain any indication that other devices can be used to receive the programme-accompanying data. This applies all the more to mobile telecommunications devices, which serve a different basic purpose. Even if on-line forwarding came to be considered, this document suggests a fixed connection such as a cable network. It therefore steers the reader away from using a mobile radio network.

**WO-A-95/15654** discloses a similar system to **EP-A-0 426 542**. The display is merely on a special handheld device which receives the programme-accompanying data from the television receiver by an infrared link.

2. The remark above also applies to Claim 14, which corresponds to Claim 1.
3. The dependent claims relate to special embodiments of the subjects of the independent claims and are therefore also novel and inventive.

Unfortunately, like the radio or TV program channel, this channel for program-accompanying data is only monodirectional.

Broadcast channels having a backward channel whereby digital data are sent between a server and a number of receivers, e.g. by means of a push channel on the Internet, have meanwhile also become known. According to the user's choice and interests, these digital data can then be stored and/or filtered in the user's receiving system. For example, a complete information program can be transmitted to the user, who then decides, for instance, to display or store only the information pertaining to sports articles or politics. With these systems, the receivers can receive a program passively and respond only when, for example, they want more information on a subject or when they want to order a product. As is well known, however, it is difficult to identify users reliably on the Internet, so that this method is not entirely suitable for transmitting confidential or security-sensitive data, such as product or remittance orders, to the sender or to a supplier. Furthermore, the user must have a minimum knowledge of computer technology in order to take advantage of an offer transmitted through a push-channel in the media program. For instance, the user must compose an E-mail message containing his own identification, a description of the product to be ordered, and the identification of the chosen supplier. Hence this method is rather lengthy and troublesome. Moreover, possible errors made by the user or arising through problems with the transmission in the telecommunications network are not easy to locate. The result is a substantial percentage of orders which cannot be carried out because, for instance, the particulars from the user have been entered incompletely or erroneously.

It is therefore the object of the present invention to provide a telecommunications system which avoids these drawbacks.

This object is attained, according to the invention, by means of a method and a system having the features of the respective independent claims, preferred embodiments being presented moreover in the dependent claims.

Replies by AKT 34

**Claims**

5        1. Telecommunication method comprising the following steps:

receiving by means of a suitable receiving system (9) digital data (5) sent out over a broadcast channel (7, 8), the receiving system including an identification (94) card by which the user of the receiving system is identified,

10        displaying information, corresponding to the received digital data, on a display (90) of the receiving system,

entering of a command by the user,

15        preparing a message corresponding to the entered command, the prepared message including at least one data field (521, 522, 524) from the digital data (5) received and an identification of the user determined from the identification card,

sending the prepared message over a bidirectional telecommunications network (8).

20        2. Telecommunication method in accordance with claim 1, wherein said digital data are transmitted as program-accompanying digital data (5) in a media program (4), and said bidirectional telecommunications network is a mobile radio network.

25        3. Telecommunication method in accordance with claim 2, wherein said media program (4) is reproduced by the receiving system (9).

4. Telecommunication method in accordance with one of the preceding claims, wherein the displayed information contains at least one menu from which a command can be selected.

5. Telecommunication method in accordance with one of the preceding claims, wherein the digital data can contain applets (50) which are executed by the receiving system (9).
6. Telecommunication method in accordance with one of the preceding 5 claims, wherein, when the components needed for processing and displaying these data are switched off, the digital data received are temporarily stored in a buffer and not processed until these components are switched on.
7. Telecommunication method in accordance with one of the preceding 10 claims, wherein the digital data received are packed in messages (5) which are first evaluated in order to determine whether they must be displayed.
8. Telecommunication method in accordance with claim 7, wherein the received messages (5) which are not of interest to the user are sorted out with the aid of a user profile stored in the memory of the receiving system (9).
9. Telecommunication method in accordance with one of the preceding 15 claims, wherein the broadcast channel (7) is a radio channel.
10. Telecommunication method in accordance with one of the claims 1 to 9 <*sic. 8*>, wherein the broadcast channel (7) is a TV channel.
11. Telecommunication method in accordance with one of the preceding 20 claims, wherein the prepared message is a SMS message.
12. Telecommunication method in accordance with one of the preceding claims, wherein the prepared message is a USSD message.
13. Telecommunication method in accordance with one of the preceding 25 claims, wherein the prepared message is signed.
14. Telecommunication method in accordance with one of the preceding claims, wherein the prepared message is encrypted.

15. Receiving system comprising:

receiving means for receiving a media program (4), sent out over a broadcast channel (7; 8), and program-accompanying data (5),

reproducing means (90, 95) for playing back to the user the media program received,

an identification card (94) for identifying the user of the receiving system (9),

mobile radio components by means of which the receiving system (9) can be utilized in a mobile radio network (8),

10 message-preparing means for preparing and sending over the mobile radio network (8) messages including at least one data field (521, 522, 524) from the program-accompanying data (5) and an identification of the user.

16. Receiving system in accordance with claim 15, wherein said receiving means comprise a radio receiver.

15 17. Receiving system in accordance with claim 15, wherein said receiving means comprise a television receiver.

18. Receiving system in accordance with one of the claims 15 to 17, wherein the mobile radio components comprise a GSM mobile apparatus.

19. Receiving system in accordance with one of the claims 15 to 18, 20 wherein the identification card is a SIM card (94) capable of executing the applets (50) transmitted in the program-accompanying data (5).

20. Receiving system in accordance with one of the claims 15 to 19, wherein the message-preparing means are capable of preparing and sending SMS messages.

21. Receiving system in accordance with one of the claims 15 to 20, wherein the message-preparing means are capable of preparing and sending USSD messages.
22. Receiving system in accordance with one of the claims 15 to 21, 5 further comprising a key (92) for causing information, corresponding to the digital data received, to be displayed on a display (90) of the receiving system.